

## **REMARKS**

In the present amendment, claims 1, 5, 16, 41 and 47 have been amended.

### **Section 112 Rejection for Lack of Enablement**

Applicants respectfully traverse the rejections for lack of enablement. The Examiner has stated that the specification does not provide enablement for “the modulation of the catalytic activity of a protein kinase related, the method of treating a protein kinase related disorder, etc.” Applicants urge that this rejection is improper because the disclosure and examples of the specification enable one of ordinary skill in the art to practice the invention and the examiner has not provided sufficient evidence or legal analysis to refute the disclosure of the specification.

#### **The Examiner Has Not Met His Initial Burden Under the Enablement Requirement**

As detailed in MPEP § 2164.04, it is incumbent upon the Examiner to provide reasons as to why a claim is not enabled. “In order to make a rejection, the examiner has the initial burden to establish a reasonable basis to question the enablement provided for the claimed invention.” MPEP § 2164.04 quoting from *In re Wright*, 999 F.2d 1557, 1562, 27 USPQ2d 1510, 1513 (Fed. Cir. 1993). “[T]he minimum requirement is for the examiner to give reasons for the uncertainty of the enablement.” MPEP § 2164, quoting from *In re Bowen*, 492 F.2d 859, 862, 181 USPQ 48, 51 (CCPA 1974). The Examiner has merely offered conclusory statements, without evidence, that the claims are not enabled. The Examiner has offered no further reasonable explanation as to why the considerable guidance in the specification, when viewed along with the numerous working examples, does not enable one of ordinary skill to practice the invention. (See specification, pages 56-109). Therefore, the Examiner has not met his initial burden to prove a lack of enablement.

#### **Applicants Have Met the Enablement Requirement**

“The test of enablement is whether one reasonably skilled in the art could make or use the invention from the disclosure in the patent coupled with information known in the art without undue experimentation” MPEP § 2164, quoting from *United States v. Telectronics, Inc.*, 857 F.2d 778, 785, 8 USPQ2d 1217, 1223 (Fed. Cir. 1988). “The test of enablement is not whether experimentation is necessary, but whether, if experimentation is necessary, it is undue.” MPEP § 2164, quoting from *In re Angstadt*, 537 F.2d 498, 504, 190 USPQ 214, 219 (CCPA 1976). Applicants contend, that under the guidelines of *In re Wands*, 8583 F.2d 731,

737, 8 USPQ2d 1400, 1404 (Fed. Cir. 1988), it would not require undue experimentation to carry out the invention of claims 4, 5, 9 and 11.

As in *Wands*, a high level of skill existed at the time of filing and the methods need to practice the invention (assays for measuring catalytic activity) were well known at the time of filing. Applicants have provided ample evidence that the level of skill in measuring catalytic activity of protein kinases, was highly developed as of the filing date of the application. Also, as of the time of the filing date, the relationship between diseases, especially cell proliferation diseases, was understood by those of skill in the art. For example, at pages 2-5 of the specification, ten journal articles and two patent documents “identify ways to modulate PK activity” and discuss the relationship between diseases and protein kinases. In addition to these references, applicants have provided guidance by identifying sources that provide protocols for assays, such as *The Manual of Clinical Immunology*, referenced at page 57 of the specification. Moreover, applicants have met their burden to show that the specification was enabled through the working examples and assays for biological evaluation, detailed on pages 56-108. The assays of the working examples modulated catalytic activity of both cellular and receptor protein kinases. In conclusion, applicants have provided sufficient evidence to enable one of ordinary skill to practice without undue experimentation the claimed methods for modulation of the catalytic activity of a protein kinase. Accordingly, the present rejections should be withdrawn.

#### **Section 112 Rejection for Lack of Written Description**

The term “trihalomethane-carbonyl” has been removed from claim rendering this rejection moot. As discussed in the previous response, the moiety “trihalomethane-carbonyl” has been deleted from the definition of R<sup>4</sup>, R<sup>5</sup>, R<sup>6</sup>, R<sup>7</sup>, R<sup>8</sup>, R<sup>9</sup>, and R<sup>10</sup> of the claims claim to obviate this rejection and expedite prosecution. This moiety, however, in positions R<sup>4</sup>, R<sup>5</sup>, R<sup>6</sup>, R<sup>7</sup>, R<sup>8</sup>, R<sup>9</sup>, and R<sup>10</sup>, is covered by the chemical structure -C(=O)-R” for carbonyl and this structure remains in the claims. As defined at page 12, R” includes alkyl, which is defined expressly at page 9 to include substitution with trihalomethane. Therefore, although the term has been removed from the above-specified positions, applicants believe that the claims continue to encompass trihalomethane carbonyl.

In claim 1, the term “heterocyclic,” has been changed to “heteroalicyclic.” The term “heretrocyclic” was meant to read to “heteroalicyclic” and this was a typographical error. Original claim 1 provides support for the term “heteroalicyclic.”

### **Section 112 Rejections for Indefiniteness**

The recitations of claims 5, 16, and 41 now have proper antecedent basis. For the structures  $R^{12}R^{13}NC(=N)-$ , and  $-R^{12}NC(=N)NR^{13}R^{14}$ , the  $(=N)$  symbol has been replaced with  $(=NH)$ . The presence of the hydrogen atom connected to the amino would be understood by implication by one of skill in the art, because a nitrogen, which is not charged, has a valence of three, and for these two structures, two bonds would extend from the nitrogen to a carbon, while the other bond would pair with a hydrogen.

The structure  $-NR^{12}C(=O)R^{13}R^{14}$  has been replaced with the ureido moiety,  $-NR^{12}C(=O)NR^{13}R^{14}$ , as supported by the original version of claim 1. The extraneous “and’s” have been deleted from claims 1 and 41. The duplicative structures or compounds have been deleted from claims 41 and 47, respectively. The compound 3-[4-(4-)-1-methylpyrrol)-2-methylidenyl]-5-aza-2-indolinone, in claim 47 has been replaced with 3-[4-(1-methylpyrrol)-2-methylidenyl]-5-aza-2-indolinone, thereby deleting the extra “4,” which was a typographical error.

### **Section 103 Rejections for Obviousness**

As applicants have stated in the previous Office Action the rejection over Tang, U.S. Patent No. 6,147,106 is improper. In response to the request by the Examiner, applicants hereby state that at the time the present invention was made, U.S. Patent No. 6,147,106 and the present invention were owned by Sugan Inc. Accordingly, Tang is disqualified from being prior art by 35 USC § 103(c) and withdrawal of this rejection is respectfully requested.

As stated in the previous MPEP § 804.03, states that Section 103(c) disqualifies prior art that qualifies only under Subsections (e), (f), and (g) of Section 102, if the invention was owned by the same entity or subject to an obligation of assignment to the same entity, for applications filed on or after November 29, 1999. By virtue of the CPA, the present application was filed on September 18, 2000. Moreover, the present invention was owned by the same entity or subject to an obligation of assignment to the same entity. Accordingly, Tang is disqualified from being prior art by 35 USC § 103(c) and withdrawal of this rejection is respectfully requested.

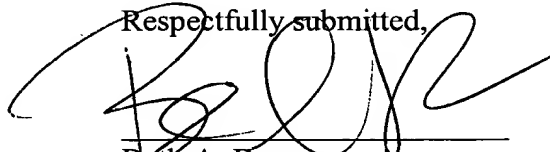
## CONCLUSION

In view of the above remarks and amendments, it is respectfully submitted that this application is in condition for allowance. Early notice to that effect is earnestly solicited. The Examiner is invited to telephone the undersigned at the number listed below if the Examiner believes this would be helpful in advancing the application to issue.

July 5, 2002

Date

Respectfully submitted,

  
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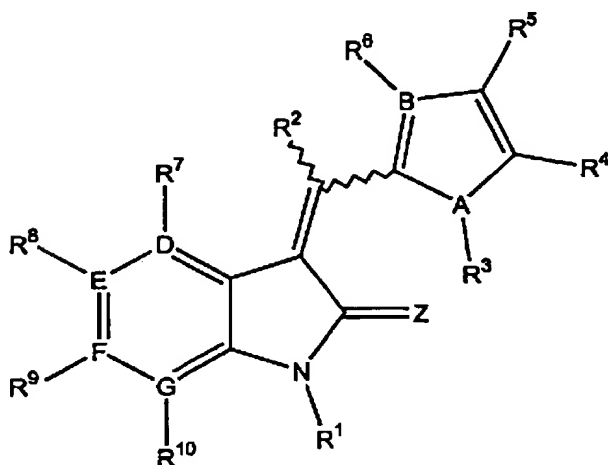
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Should additional fees be necessary in connection with the filing of this paper, or if a petition for extension of time is required for timely acceptance of same, the Commissioner is hereby authorized to charge Deposit Account No. 19-0741 for any such fees; and applicant(s) hereby petition for any needed extension of time.

### Marked-Up Version of the Amended Claims

1. (~~Four~~Five times amended) An azaindole compound having the following chemical structure:



wherein,

A is selected from the group consisting of nitrogen, oxygen and sulfur and it is understood that when A is oxygen or sulfur, R<sup>3</sup> does not exist and there is no bond;

B, D, E, F and G are independently selected from the group consisting of carbon and nitrogen wherein only one of D, E, F and G is nitrogen and the other of D, E, F, and G are carbon, and it is understood that when B, D, E, F or G is nitrogen, R<sup>6</sup>, R<sup>7</sup>, R<sup>8</sup>, R<sup>9</sup> and R<sup>10</sup>, respectively, do not exist and there is no bond;

Z is selected from the group consisting of oxygen, sulfur and NR<sup>11</sup> wherein, R<sup>11</sup> is selected from the group consisting of hydrogen, alkyl, cycloalkyl, aryl, hydroxy, alkoxy, aryloxy, -C(=O)-R'', -C(=O)O-R'', R''C(=O)O-, -S(=O)<sub>2</sub>R'', -C(=O)NR<sup>12</sup>R<sup>13</sup>, R<sup>12</sup>R<sup>13</sup>NC(=[N]NH)-, and trihalomethanesulfonyl;

R<sup>1</sup> is selected from the group consisting of hydrogen, alkyl, cycloalkyl, aryl, heteroaryl, heteroalicyclic, hydroxy, alkoxy, trihalomethanecarbonyl, trihalomethanesulfonyl, -C(=O)O-R'', R''C(=O)O-, -S(=O)<sub>2</sub>R'', -C(=O)NR<sup>12</sup>R<sup>13</sup>, and R<sup>12</sup>R<sup>13</sup>NC(=[N]NH)-;

R<sup>2</sup> is selected from the group consisting of hydrogen, alkyl, cycloalkyl, aryl and halogen;

when A is nitrogen, R<sup>3</sup> is selected from the group consisting of hydrogen, alkyl, cycloalkyl, aryl, hydroxy, alkoxy, aryloxy, -C(=O)-R'', -C(=O)O-R'', trihalomethanesulfonyl, R''C(=O)O-, -S(=O)<sub>2</sub>R'', -C(=O)NR<sup>12</sup>R<sup>13</sup>, and R<sup>12</sup>R<sup>13</sup>NC(=[N]NH)-;

R<sup>4</sup>, R<sup>5</sup>, R<sup>6</sup>, R<sup>7</sup>, R<sup>8</sup>, R<sup>9</sup> and R<sup>10</sup> are independently selected from the group consisting of hydrogen, alkyl, trihaloalkyl, cycloalkyl, alkenyl, alkynyl, aryl, heteroaryl, heteroalicyclic, hydroxy, alkoxy, aryloxy, thiohydroxy, thioalkoxy, -R<sup>12</sup>NC(=[N]NH)NR<sup>13</sup>R<sup>14</sup>, thioaryloxy, -S(=O)R'', -S(=O)<sub>2</sub>NR<sup>12</sup>R<sup>13</sup>, R<sup>12</sup>S(=O)<sub>2</sub>NR<sup>13</sup>-, trihalomethanesulfonyl, -C(=O)-R'', -C(=O)O-R'', R''C(=O)O-, -S(=O)<sub>2</sub>R'', -C(=O)NR<sup>12</sup>R<sup>13</sup>, cyano, nitro, halo, amino, -OC(=O)NR<sup>12</sup>R<sup>13</sup>, R<sup>12</sup>OC(=O)NR<sup>13</sup>-, -OC(=S)NR<sup>12</sup>R<sup>13</sup>, R<sup>12</sup>OC(=S)NR<sup>13</sup>-, R<sup>12</sup>R<sup>13</sup>NC(=[N]NH)-, -NR<sup>12</sup>C(=O)[R]NR<sup>13</sup>R<sup>14</sup>, R<sup>12</sup>C(=O)NR<sup>13</sup>-, R<sup>12</sup>C(=O)NR<sup>13</sup>- and -NR<sup>12</sup>R<sup>13</sup>;

wherein R'' is selected from the group consisting of hydrogen, alkyl, cycloalkyl, aryl, heteroaryl (bonded through a ring carbon) and heteroalicyclic (bonded through a ring carbon);

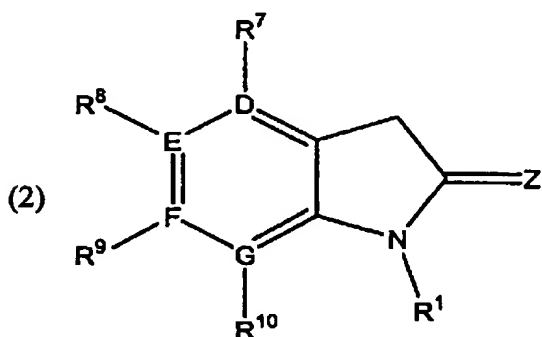
and wherein R<sup>12</sup>, R<sup>13</sup>, and R<sup>14</sup> are independently selected from the group consisting of hydrogen, alkyl, cycloalkyl, aryl, -C(=O)-R'', -S(=O)<sub>2</sub>R'', and combined, ~~[and]~~ a five or six membered ~~[heterocyclic]~~ heteroalicyclic ring containing at least one nitrogen;

and the physiologically acceptable salts thereof.

5. (Twice Amended) The compound or salt of claim 4 wherein R<sup>7</sup>, R<sup>8</sup>, R<sup>9</sup> and R<sup>10</sup> are independently selected from the group consisting of hydrogen, alkyl, alkoxy, thioalkoxy, nitro, amino and ~~[N-amide]~~ R<sup>12</sup>C(=O)NR<sup>13</sup>-.

16. (~~Once~~ Twice Amended) The compound or salt of claim 15 wherein R<sup>4</sup>, R<sup>5</sup> and R<sup>6</sup> are heteroaryl, aryloxy, thioalkoxy, halo[, or nitro[, ~~trihalomethane carbonyl and an aryl ring or a heteroaryl ring formed by the combination of R<sup>4</sup> and R<sup>5</sup>.~~].

41. (~~Four~~**Five** times Amended) A method for synthesizing a compound of claim 1 comprising the step of reacting a first reactant with a second reactant in a solvent and in the presence of a base at elevated temperatures, wherein said first reactant has the structure set forth in formula 2



wherein

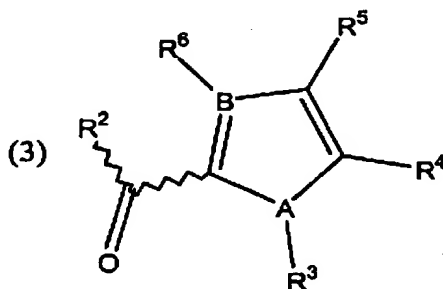
D, E, F and G are independently selected from the group consisting of carbon and nitrogen wherein only one of D, E, F and G is nitrogen and the other of D, E, F, and G are carbon, and it is understood that when D, E, F or G is nitrogen,  $R^7$ ,  $R^8$ ,  $R^9$  and  $R^{10}$ , respectively, do not exist and there is no bond;

$R^7$ ,  $R^8$ ,  $R^9$  and  $R^{10}$  are independently selected from the group consisting of hydrogen, alkyl, trihaloalkyl, cycloalkyl, alkenyl, alkynyl, aryl, heteroaryl, heteroalicyclic, hydroxy, alkoxy, aryloxy, thiohydroxy, thioalkoxy, thioaryloxy,  $-S(=O)R''$ ,  $-S(=O)_2NR^{12}R^{13}$ ,  $R^{12}S(=O)_2NR^{13}-$ , trihalomethanesulfonyl,  $-C(=O)-R''$ ,  $R^{12}C(=O)NR^{13}-$ ,  $-C(=O)O-R''$ ,  $R''C(=O)O-$ ,  $-S(=O)_2R''$ ,  $-C(=O)NR^{12}R^{13}$ , cyano, nitro, halo,  $-OC(=O)NR^{12}R^{13}$ ,  $R^{12}OC(=O)NR^{13}-$ ,  $-OC(=S)NR^{12}R^{13}$ ,  $R^{12}OC(=S)NR^{13}-$ ,  $R^{12}R^{13}NC(=[N]NH)-$ ,  $-R^{12}NC(=[N]NH)NR^{13}R^{14}$ ,  $-NR^{12}C(=O)NR^{13}R^{14}$ , amino, and  $-NR^{12}R^{13}$ ;

Z is selected from the group consisting of oxygen, sulfur and  $NR^{11}$  wherein,  $R^{11}$  is selected from the group consisting of hydrogen, alkyl, cycloalkyl, aryl, hydroxy, alkoxy, aryloxy,  $-C(=O)-R''$ , trihalomethanesulfonyl  $-C(=O)O-R''$ ,  $R''C(=O)O-$ ,  $-S(=O)_2R''$ ,  $-C(=O)NR^{12}R^{13}$ , and  $R^{12}R^{13}NC(=[N]NH)-$ ;

$R^1$  is selected from the group consisting of hydrogen, alkyl, cycloalkyl, aryl, heteroaryl, heteroalicyclic, hydroxy, alkoxy, trihalomethanecarbonyl, ~~[and]~~ trihalomethanesulfonyl  $-C(=O)O-R''$ ,  $R''C(=O)O-$ ,  $-S(=O)_2R''$ ,  $-C(=O)NR^{12}R^{13}$ , and  $R^{12}R^{13}NC(=[N]NH)-$ ;

and wherein said second reactant is an acyl compound having the structure set forth in formula 3



wherein

A is selected from the group consisting of nitrogen, oxygen and sulfur and it is understood that when A is oxygen or sulfur,  $R^3$  does not exist and there is no bond;

B is selected from the group consisting of carbon and nitrogen and it is understood that when B is nitrogen,  $R^6$  does not exist and there is no bond;

$R^2$  is selected from the group consisting of hydrogen, alkyl, cycloalkyl, aryl and halogen;

when A is nitrogen,  $R^3$  is selected from the group consisting of hydrogen, alkyl, cycloalkyl, aryl, hydroxy, alkoxy, aryloxy,  $-C(=O)-R''$ ,  $-C(=O)O-R''$ ,  $R''C(=O)O-$ ,  $-S(=O)_2R''$ ,  $-C(=O)NR^{12}R^{13}$ , ~~[and]~~  $R^{12}R^{13}NC(=[N]NH)-$ , and trihalomethanesulfonyl;~~[and]~~

$R^4$ ,  $R^5$ , and  $R^6$  are independently selected from the group consisting of hydrogen, alkyl, trihaloalkyl, cycloalkyl, alkenyl, alkynyl, aryl, heteroaryl, heteroalicyclic, hydroxy, alkoxy, aryloxy, thiohydroxy, thioalkoxy, thioaryloxy,  $-S(=O)R''$ ,  $-S(=O)_2NR^{12}R^{13}$ ,  $R^{12}S(=O)_2NR^{13}-$ , trihalomethanesulfonyl,  $-C(=O)-R''$ ,  $-S(=O)_2-R''$ ,  $R^{12}C(=O)NR^{13}-$ , cyano, nitro, halo,  $-OC(=O)NR^{12}R^{13}$ ,  $R^{12}OC(=O)NR^{13}-$ ,  $-OC(=S)NR^{12}R^{13}$ ,  $R^{12}OC(=S)NR^{13}-$ ,  $-C(=O)O-R''$ ,  $R''C(=O)O-$ ,  ~~$-[S(=O)_2R'']$~~   $-C(=O)NR^{12}R^{13}$ ,  $R^{12}R^{13}NC(=[N]NH)-$ ,  $-R^{12}NC(=[N]NH)NR^{13}R^{14}$ ,  $-NR^{12}C(=O)[R]NR^{13}R^{14}$ , amino and  $-NR^{12}R^{13}$ ;



wherein R'' is selected from the group consisting of hydrogen, alkyl, cycloalkyl, aryl, heteroaryl (bonded through a ring carbon) and heteroalicyclic (bonded through a ring carbon);

and wherein R<sup>12</sup>, R<sup>13</sup>, and R<sup>14</sup> are independently selected from the group consisting of hydrogen, alkyl, cycloalkyl, aryl, -C(=O)-R'', -S(=O)<sub>2</sub>R'', and, combined, a five- or six-member heteroalicyclic ring containing at least one nitrogen.

47. (~~New~~**Once Amended**) A compound selected from the group consisting of:

3-(thien-2-methylidenyl)-4-aza-2-indolinone,  
3-(1-methylpyrrol-2-methylidenyl)-4-aza-2-indolinone,  
3-(2-methylthien-5-methylidenyl)-4-aza-2-indolinone,  
3-(pyrrol-2-methylidenyl)-4-aza-2-indolinone,  
3-(4-methylthien-2-methylidenyl)-4-aza-2-indolinone,  
3-(2,4-dimethyl-3-ethoxycarbonylpyrrol-5-methylidenyl)-4-aza-2-indolinone,  
3-[4-(2-methoxycarbonyl-ethyl)-3-methylpyrrol-2-methylidenyl]-4-aza-2-indolinone,  
3-(2,4-dimethyl-3-ethylpyrrol-5-methylidenyl)-4-aza-2-indolinone,  
3-(2-methylmercaptothien-5-methylidenyl)-4-aza-2-indolinone,  
3-(2,3-dimethylthien-5-methylidenyl)-4-aza-2-indolinone,  
3-(2-chlorothien-5-methylidenyl)-4-aza-2-indolinone,  
3-(2,4-dimethylpyrrol-5-methylidenyl)-4-aza-2-indolinone,  
3-(2-nitrothien-5-methylidenyl)-4-aza-2-indolinone,  
3-(3-bromothien-2-methylidenyl)-4-aza-2-indolinone,  
3-(2-carboxy-4-ethyl-3-methylpyrrol-5-methylidenyl)-4-aza-2-indolinone,  
3-(3-ethoxycarbonyl-1,2,4-trimethylpyrrol-5-methylidenyl)-4-aza-2-indolinone,  
3-(2-ethoxycarbonyl-4-methoxycarbonyl-3-methylpyrrol-5-methylidenyl)-4-aza-2-indolinone,  
3-(3,4-dimethylpyrrol-2-methylidenyl)-4-aza-2-indolinone,  
3-(2-ethylthien-5-methylidenyl)-4-aza-2-indolinone,  
3-(2,4-diethylpyrrol-5-methylidenyl)-4-aza-2-indolinone,  
3-(4-methylmercaptothien-2-methylidenyl)-4-aza-2-indolinone,  
3-[2-trifluoro-1-(thien-2-yl)ethylidenyl]-4-aza-2-indolinone,  
3-(2,4-diisopropylpyrrol-5-methylidenyl)-4-aza-2-indolinone,

3-(2,4-dimethylthien-5-methylidenyl)-4-aza-2-indolinone,  
 3-(2-ethyl-3-methylthien-5-methylidenyl)-4-aza-2-indolinone,  
 3-(2-isopropyl-3-methylthien-5-methylidenyl)-4-aza-2-indolinone,  
 3-(3-methyl-2-n-propylthien-5-methylidenyl)-4-aza-2-indolinone,  
 3-(2-n-butylthien-5-methylidenyl)-4-aza-2-indolinone,  
 3-(2-n-propylthien-5-methylidenyl)-4-aza-2-indolinone,  
 3-(4-acetyl-2-ethoxycarbonyl-3-methylpyrrol-5-methylidenyl)-4-aza-2-indolinone,  
 3-(4-methoxycarbonyl-3-methoxycarbonylmethyl-2-methylpyrrol-5-methylidenyl)-4-aza-2-indolinone,  
 3-[2-(2-carboxyethyl)-3-methylpyrrol-2-methylidenyl]-4-aza-2-indolinone,  
 3-(1-methylpyrrol-2-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(2-methylthien-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(pyrrol-2-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(4-methylthien-2-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(2,4-dimethyl-3-ethoxycarbonylpyrrol-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-[4-(2-methoxycarbonyl-ethyl)-3-methylpyrrol-2-methylidenyl]-4-aza-5-methyl-2-indolinone,  
 3-(2,4-dimethyl-3-ethylpyrrol-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(2-methylmercaptothien-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(2,3-dimethylthien-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(2-chlorothien-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(2,4-dimethylpyrrol-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(2-nitrothien-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(3-bromothien-2-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(2-carboxy-4-ethyl-3-methylpyrrol-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(3-ethoxycarbonyl-1,2,4-trimethylpyrrol-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(2-ethoxycarbonyl-4-methoxycarbonyl-3-methylpyrrol-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(3,4-dimethylpyrrol-2-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(2-ethylthien-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(2,4-diethylpyrrol-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(4-methylmercaptothien-2-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-[2-(trifluoro-1-(thien-2-yl)ethylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(2,4-diisopropylpyrrol-5-methylidenyl)-4-aza-5-methyl-2-indolinone,

3-(2,4-dimethylthien-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(2-ethyl-3-methylthien-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(2-isopropyl-3-methylthien-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(3-methyl-2-n-propylthien-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(2-n-butylthien-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(2-n-propylthien-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(4-acetyl-2-ethoxycarbonyl-3-methylpyrrol-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(4-methoxycarbonyl-3-methoxycarbonylmethyl-2-methylpyrrol-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-[2-[1-methyl-5-(trifluoromethyl)pyrrol-3-yl]thien-5-methylidenyl]-4-aza-5-methyl-2-indolinone,  
 3-[2-[1-methyl-3-(trifluoromethyl)pyrrol-5-yl]thien-5-methylidenyl]-4-aza-5-methyl-2-indolinone,  
 3-[2-(2-carboxyethyl)-3-methylpyrrol-2-methylidenyl]-4-aza-5-methyl-2-indolinone,  
 3-(thien-2-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(1-methylpyrrol-2-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(2-methylthien-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(pyrrol-2-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(4-methylthien-2-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(2,4-dimethyl-3-ethoxycarbonylpyrrol-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-[4-(2-methoxycarbonyl)ethyl]-3-methylpyrrol-2-methylidenyl]-7-aza-5-nitro-2-indolinone,  
 3-(2,4-dimethyl-3-ethylpyrrol-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(2-methylmercaptothien-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(2,3-dimethylthien-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(2-chlorothien-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(2,4-dimethylpyrrol-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(2-nitrothien-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(2-carboxy-4-ethyl-3-methylpyrrol-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(3-ethoxycarbonyl-1,2,4-trimethylpyrrol-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(2-ethoxycarbonyl-4-methoxycarbonyl-3-methylpyrrol-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(3,4-dimethylpyrrol-2-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(2-ethylthien-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(2,4-diethylpyrrol-5-methylidenyl)-7-aza-5-nitro-2-indolinone,

3-(4-methylmercaptothien-2-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-[2-trifluoro-1-(thien-2-yl)ethylidenyl]-7-aza-5-nitro-2-indolinone,  
 3-(2,4-diisopropylpyrrol-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(2,4-dimethylthien-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(3-bromothien-2-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(2-ethyl-3-methylthien-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(2-isopropyl-3-methylthien-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(3-methyl-2-n-propylthien-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(2-n-butylthien-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(2-n-propylthien-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(4-acetyl-2-ethoxycarbonyl-3-methylpyrrol-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(4-methoxycarbonyl-3-methoxycarbonylmethyl-2-methylpyrrol-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-[2-[1-methyl-5-(trifluoromethyl)pyrrol-3-yl]thien-5-methylidenyl]-7-aza-5-nitro-2-indolinone,  
 3-[2-[1-methyl-3-(trifluoromethyl)pyrrol-5-yl]thien-5-methylidenyl]-7-aza-5-nitro-2-indolinone,  
 3-[2-(2-carboxyethyl)-3-methylpyrrol-2-methylidenyl]-7-aza-5-nitro-2-indolinone,  
 3-(thien-2-methylidenyl)-6-aza-2-indolinone, 3-(1-methylpyrrol-2-methylidenyl)-6-aza-2-indolinone,  
 3-(2-methylthien-5-methylidenyl)-6-aza-2-indolinone,  
 3-(pyrrol-2-methylidenyl)-6-aza-2-indolinone,  
 3-(4-methylthien-2-methylidenyl)-6-aza-2-indolinone,  
 3-(2,4-dimethyl-3-ethoxycarbonylpyrrol-5-methylidenyl)-6-aza-2-indolinone,  
 3-[4-(2-methoxycarbonylethyl)-3-methylpyrrol-2-methylidenyl]-6-aza-2-indolinone,  
 3-(2,4-dimethyl-3-ethylpyrrol-5-methylidenyl)-6-aza-2-indolinone,  
 3-(2-methylmercaptothien-5-methylidenyl)-6-aza-2-indolinone,  
 3-(2,3-dimethylthien-5-methylidenyl)-6-aza-2-indolinone,  
 3-(2-chlorothien-5-methylidenyl)-6-aza-2-indolinone,  
 3-(2,4-dimethylpyrrol-5-methylidenyl)-6-aza-2-indolinone,  
 3-(2-nitrothien-5-methylidenyl)-6-aza-2-indolinone,  
 3-(3-bromothien-2-methylidenyl)-6-aza-2-indolinone,  
 3-(2-carboxy-4-ethyl-3-methylpyrrol-5-methylidenyl)-6-aza-2-indolinone,  
 3-(3-ethoxycarbonyl-1,2,4-trimethylpyrrol-5-methylidenyl)-6-aza-2-indolinone,

3-(2-ethoxycarbonyl-4-methoxycarbonyl-3-methylpyrrol-5-methylidenyl)-6-aza-2-indolinone,  
 3-(3,4-dimethylpyrrol-2-methylidenyl)-6-aza-2-indolinone,  
 3-(2-ethylthien-5-methylidenyl)-6-aza-2-indolinone,  
 3-(2,4-diethylpyrrol-5-methylidenyl)-6-aza-2-indolinone,  
 3-(4-methylmercaptothien-2-methylidenyl)-6-aza-2-indolinone,  
 3-[2-trifluoro-1-(thien-2-yl)ethylidenyl]-6-aza-2-indolinone,  
 3-(2,4-diisopropylpyrrol-5-methylidenyl)-6-aza-2-indolinone,  
 3-(2,4-dimethylthien-5-methylidenyl)-6-aza-2-indolinone,  
 3-(2-cyclopropyl-4-methylthien-5-methylidenyl)-6-aza-2-indolinone,  
 3-(2-ethyl-3-methylthien-5-methylidenyl)-6-aza-2-indolinone,  
 3-(2-isopropyl-3-methylthien-5-methylidenyl)-6-aza-2-indolinone,  
 3-(3-methyl-2-n-propylthien-5-methylidenyl)-6-aza-2-indolinone,  
 3-(2-n-butylthien-5-methylidenyl)-6-aza-2-indolinone,  
 3-(2-n-propylthien-5-methylidenyl)-6-aza-2-indolinone,  
 3-(4-acetyl-2-ethoxycarbonyl-3-methylpyrrol-5-methylidenyl)-6-aza-2-indolinone,  
 3-(4-methoxycarbonyl-3-methoxycarbonylmethyl-2-methylpyrrol-5-methylidenyl)-6-aza-2-indolinone,  
 3-[2-[1-methyl-5-(trifluoromethyl)pyrrol-3-yl]thien-5-methylidenyl]-6-aza-2-indolinone,  
 3-[2-[1-methyl-3-(trifluoromethyl)pyrrol-5-yl]thien-5-methylidenyl]-6-aza-2-indolinone,  
 3-[2-(2-carboxyethyl)-3-methylpyrrol-2-methylidenyl]-6-aza-2-indolinone,  
 3-(thien-2-methylidenyl)-5-aza-2-indolinone,  
 3-(1-methylpyrrol-2-methylidenyl)-5-aza-2-indolinone,  
 3-(2-methylthien-5-methylidenyl)-5-aza-2-indolinone,  
 3-(pyrrol-2-methylidenyl)-5-aza-2-indolinone,  
 3-(4-methylthien-2-methylidenyl)-5-aza-2-indolinone,  
 3-(2,4-dimethyl-3-ethoxycarbonylpyrrol-5-methylidenyl)-5-aza-2-indolinone,  
 3-[4-(2-methoxycarbonyl)ethyl]-3-methylpyrrol-2-methylidenyl]-5-aza-2-indolinone,  
 3-(2,4-dimethyl-3-ethylpyrrol-5-methylidenyl)-5-aza-2-indolinone,  
 3-(2-methylmercaptothien-5-methylidenyl)-5-aza-2-indolinone,  
 3-(2,3-dimethylthien-5-methylidenyl)-5-aza-2-indolinone,  
 3-(2-chlorothien-5-methylidenyl)-5-aza-2-indolinone,  
 3-(2,4-dimethylpyrrol-5-methylidenyl)-5-aza-2-indolinone,  
 3-(2-nitrothien-5-methylidenyl)-5-aza-2-indolinone,

3-(3-bromothien-2-methylidenyl)-5-aza-2-indolinone,  
 3-(2-carboxy-4-ethyl-3-methylpyrrol-5-methylidenyl)-5-aza-2-indolinone,  
 3-(3-ethoxycarbonyl-1,2,4-trimethylpyrrol-5-methylidenyl)-5-aza-2-indolinone,  
 3-(2-ethoxycarbonyl-4-methoxycarbonyl-3-methylpyrrol-5-methylidenyl)-5-aza-2-indolinone,  
 3-(3,4-dimethylpyrrol-2-methylidenyl)-5-aza-2-indolinone,  
 3-(2-ethylthien-5-methylidenyl)-5-aza-2-indolinone,  
 3-(2,4-diethylpyrrol-5-methylidenyl)-5-aza-2-indolinone,  
 3-(4-methylmercaptothien-2-methylidenyl)-5-aza-2-indolinone,  
 3-[2-trifluoro-1-(thien-2-yl)ethylidenyl]-5-aza-2-indolinone,  
 3-(2,4-diisopropylpyrrol-5-methylidenyl)-5-aza-2-indolinone,  
 3-(2,4-dimethylthien-5-methylidenyl)-5-aza-2-indolinone,  
 3-(2-cyclopropyl-4-methylthien-5-methylidenyl)-5-aza-2-indolinone,  
 3-(2-ethyl-3-methylthien-5-methylidenyl)-5-aza-2-indolinone,  
 3-(2-isopropyl-3-methylthien-5-methylidenyl)-5-aza-2-indolinone,  
 3-(3-methyl-2-n-propylthien-5-methylidenyl)-5-aza-2-indolinone,  
 3-(2-n-butylthien-5-methylidenyl)-5-aza-2-indolinone,  
 3-(2-n-propylthien-5-methylidenyl)-5-aza-2-indolinone,  
 3-(4-acetyl-2-ethoxycarbonyl-3-methylpyrrol-5-methylidenyl)-5-aza-2-indolinone,  
 3-(4-methoxycarbonyl-3-methoxycarbonylmethyl-2-methylpyrrol-5-methylidenyl)-5-aza-2-indolinone,  
 3-[4-([4~~+~~)]1-methylpyrrol]-2-methylidenyl]-5-aza-2-indolinone,  
 3-[2-[1-methyl-5-(trifluoromethyl)pyrrol-3-yl]thien-5-methylidenyl]-5-aza-2-indolinone,  
 3-[2-[1-methyl-3-(trifluoromethyl)pyrrol-5-yl]thien-5-methylidenyl]-5-aza-2-indolinone,  
 3-[2-(2-carboxyethyl)-3-methylpyrrol-2-methylidenyl]-5-aza-2-indolinone,  
 3-(thien-2-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(1-methylpyrrol-2-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2-methylthien-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(pyrrol-2-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(4-methylthien-2-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2,4-dimethyl-3-ethoxycarbonylpyrrol-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-[4-(2-methoxycarbonyl-ethyl)-3-methylpyrrol-2-methylidenyl]-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,

3-(2,4-dimethyl-3-ethylpyrrol-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2-methylmercaptothien-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2,3-dimethylthien-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2-chlorothien-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2,4-dimethylpyrrol-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2-nitrothien-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(3-bromothien-2-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2-carboxy-4-ethyl-3-methylpyrrol-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(3-ethoxycarbonyl-1,2,4-trimethylpyrrol-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2-ethoxycarbonyl-4-methoxycarbonyl-3-methylpyrrol-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(3,4-dimethylpyrrol-2-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2-ethylthien-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2,4-diethylpyrrol-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(4-methylmercaptothien-2-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-[2-trifluoro-1-(thien-2-yl)ethylidenyl]-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2,4-diisopropylpyrrol-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2,4-dimethylthien-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2-cyclopropyl-4-methylthien-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2-ethyl-3-methylthien-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2-isopropyl-3-methylthien-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(3-methyl-2-n-propylthien-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2-n-butylthien-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2-n-propylthien-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(4-acetyl-2-ethoxycarbonyl-3-methylpyrrol-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(4-methoxycarbonyl-3-methoxycarbonylmethyl-2-methylpyrrol-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-[2-[1-methyl-5-(trifluoromethyl)pyrrol-3-yl]thien-5-methylidenyl]-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-[2-[1-methyl-3-(trifluoromethyl)pyrrol-5-yl]thien-5-methylidenyl]-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,

3-[2-(2-carboxyethyl)-3-methylpyrrol-2-methylidenyl]-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,

3-(thien-2-methylidenyl)-5-amino-7-aza-2-indolinone, 3-(1-methylpyrrol-2-methylidenyl)-5-amino-7-aza-2-indolinone,

3-(2-methylthien-5-methylidenyl)-5-amino-7-aza-2-indolinone, 3-(pyrrol-2-methylidenyl)-5-amino-7-aza-2-indolinone,

3-(4-methylthien-2-methylidenyl)-5-amino-7-aza-2-indolinone,

3-(2,4-dimethyl-3-ethoxycarbonylpyrrol-5-methylidenyl)-5-amino-7-aza-2-indolinone,

3-[4-(2-methoxycarbonyl)ethyl]-3-methylpyrrol-2-methylidenyl]-5-amino-7-aza-2-indolinone,

3-(2,4-dimethyl-3-ethylpyrrol-5-methylidenyl)-5-amino-7-aza-2-indolinone,

3-(2-methylmercaptothien-5-methylidenyl)-5-amino-7-aza-2-indolinone,

3-(2,3-dimethylthien-5-methylidenyl)-5-amino-7-aza-2-indolinone,

3-(2-chlorothien-5-methylidenyl)-5-amino-7-aza-2-indolinone,

3-(2,4-dimethylpyrrol-5-methylidenyl)-5-amino-7-aza-2-indolinone,

3-(2-nitrothien-5-methylidenyl)-5-amino-7-aza-2-indolinone,

3-(3-bromothien-2-methylidenyl)-5-amino-7-aza-2-indolinone,

3-(2-carboxy-4-ethyl-3-methylpyrrol-5-methylidenyl)-5-amino-7-aza-2-indolinone,

3-(3-ethoxycarbonyl-1,2,4-trimethylpyrrol-5-methylidenyl)-5-amino-7-aza-2-indolinone,

3-(2-ethoxycarbonyl-4-methoxycarbonyl-3-methylpyrrol-5-methylidenyl)-5-amino-7-aza-2-indolinone, 3-(3,4-dimethylpyrrol-2-methylidenyl)-5-amino-7-aza-2-indolinone,

3-(2-ethylthien-5-methylidenyl)-5-amino-7-aza-2-indolinone, 3-(2,4-diethylpyrrol-5-methylidenyl)-5-amino-7-aza-2-indolinone,

3-(4-methylmercaptothien-2-methylidenyl)-5-amino-7-aza-2-indolinone,

3-[2-trifluoro-1-(thien-2-yl)ethylidenyl]-5-amino-7-aza-2-indolinone,

3-(2,4-diisopropylpyrrol-5-methylidenyl)-5-amino-7-aza-2-indolinone,

3-(2,4-dimethylthien-5-methylidenyl)-5-amino-7-aza-2-indolinone,

3-(2-cyclopropyl-4-methylthien-5-methylidenyl)-5-amino-7-aza-2-indolinone,

3-(2-ethyl-3-methylthien-5-methylidenyl)-5-amino-7-aza-2-indolinone,

3-(2-isopropyl-3-methylthien-5-methylidenyl)-5-amino-7-aza-2-indolinone,

3-(3-methyl-2-n-propylthien-5-methylidenyl)-5-amino-7-aza-2-indolinone,

3-(2-n-butylthien-5-methylidenyl)-5-amino-7-aza-2-indolinone,

3-(2-n-propylthien-5-methylidenyl)-5-amino-7-aza-2-indolinone,

3-(4-acetyl-2-ethoxycarbonyl-3-methylpyrrol-5-methylidenyl)-5-amino-7-aza-2-indolinone,



3-(4-methoxycarbonyl-3-methoxycarbonylmethyl-2-methylpyrrol-5-methylidenyl)-5-amino-7-aza-2-indolinone,

3-[2-[1-methyl-5-(trifluoromethyl)pyrrol-3-yl]thien-5-methylidenyl]-5-amino-7-aza-2-indolinone,

3-[2-[1-methyl-3-(trifluoromethyl)pyrrol-5-yl]thien-5-methylidenyl]-5-amino-7-aza-2-indolinone,

3-[2-(2-carboxyethyl)-3-methylpyrrol-2-methylidenyl]-5-amino-7-aza-2-indolinone,

3-(thien-2-methylidenyl)-5-acetamido-7-aza-2-indolinone,

3-(1-methylpyrrol-2-methylidenyl)-5-acetamido-7-aza-2-indolinone,

3-(2-methylthien-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,

3-(pyrrol-2-methylidenyl)-5-acetamido-7-aza-2-indolinone,

3-(4-methylthien-2-methylidenyl)-5-acetamido-7-aza-2-indolinone,

3-(2,4-dimethyl-3-ethoxycarbonylpyrrol-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,

3-[4-(2-methoxycarbonylethyl)-3-methylpyrrol-2-methylidenyl]-5-acetamido-7-aza-2-indolinone,

3-(2,4-dimethyl-3-ethylpyrrol-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,

3-(2-methylmercaptothien-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,

3-(2,3-dimethylthien-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,

3-(2-chlorothien-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,

3-(2,4-dimethylpyrrol-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,

3-(2-nitrothien-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,

3-(3-bromothien-2-methylidenyl)-5-acetamido-7-aza-2-indolinone,

3-(2-carboxy-4-ethyl-3-methylpyrrol-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,

3-(3-ethoxycarbonyl-1,2,4-trimethylpyrrol-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,

3-(2-ethoxycarbonyl-4-methoxycarbonyl-3-methylpyrrol-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,

3-(3,4-dimethylpyrrol-2-methylidenyl)-5-acetamido-7-aza-2-indolinone,

3-(2-ethylthien-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,

3-(2,4-diethylpyrrol-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,

3-(4-methylmercaptothien-2-methylidenyl)-5-acetamido-7-aza-2-indolinone,

3-[2-trifluoro-1-(thien-2-yl)ethylidenyl]-5-acetamido-7-aza-2-indolinone,

3-(2,4-diisopropylpyrrol-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,

3-(2,4-dimethylthien-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,

3-(2-ethyl-3-methylthien-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,

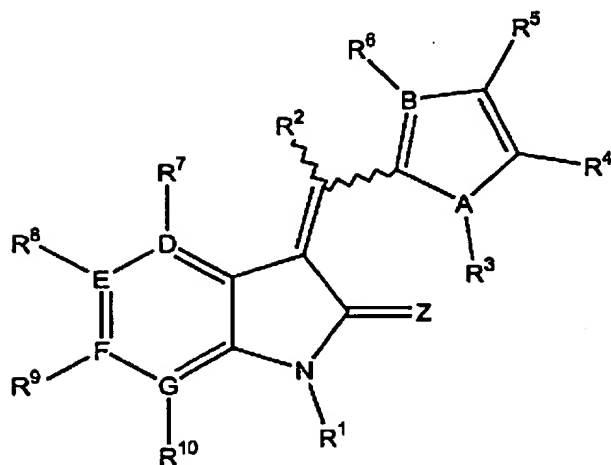
3-(2-isopropyl-3-methylthien-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
 3-(3-methyl-2-n-propylthien-5-methylidenyl)-5-acetamido-7-aza-2-indolinone, 3-(2-n-butylthien-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
 3-(2-n-propylthien-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
 3-(4-acetyl-2-ethoxycarbonyl-3-methylpyrrol-5-methylidenyl)-5-acetamido-7-aza-2-indolinone, 3-(4-methoxycarbonyl-3-methoxycarbonylmethyl-2-methylpyrrol-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
 3-[2-[1-methyl-5-(trifluoromethyl)pyrrol-3-yl]thien-5-methylidenyl]-5-acetamido-7-aza-2-indolinone,  
 3-[2-[1-methyl-3-(trifluoromethyl)pyrrol-5-yl]thien-5-methylidenyl]-5-acetamido-7-aza-2-indolinone,  
 3-[2-(2-carboxyethyl)-3-methylpyrrol-2-methylidenyl]-5-acetamido-7-aza-2-indolinone  
 3-(2-phenylthien-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(2-phenylthien-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(2-phenylthien-5-methylidenyl)-6-aza-2-indolinone,  
 3-(2-phenylthien-5-methylidenyl)-5-aza-2-indolinone,  
 3-(2-phenylthien-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2-phenylthien-5-methylidenyl)-5-amino-7-aza-2-indolinone,  
 3-(2-phenylthien-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
 3-(3-phenoxythien-2-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(3-phenoxythien-2-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(3-phenoxythien-2-methylidenyl)-6-aza-2-indolinone,  
 3-(3-phenoxythien-2-methylidenyl)-5-aza-2-indolinone,  
 3-(3-phenoxythien-2-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(3-phenoxythien-2-methylidenyl)-5-amino-7-aza-2-indolinone,  
 3-(3-phenoxythien-2-methylidenyl)-4-aza-2-indolinone,  
 3-(3-phenoxythien-2-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
 3-[2-[1-methyl-5-(trifluoromethyl)pyrrol-3-yl]thien-5-methylidenyl]-4-aza-2-indolinone,  
~~3-[2-[1-methyl-5-(trifluoromethyl)pyrrol-3-yl]thien-5-methylidenyl]-4-aza-2-indolinone,~~  
 3-[2-[1-methyl-3-(trifluoromethyl)pyrrol-5-yl]thien-5-methylidenyl]-4-aza-2-indolinone,  
 3-(2-cyclopropyl-4-methylthien-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(2-cyclopropyl-4-methylthien-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(2-cyclopropyl-4-methylthien-5-methylidenyl)-4-aza-2-indolinone,

3-(2-cyclopropyl-4-methylthien-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
 3-(2-cyclohexyl-3-methylthien-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(2-cyclohexyl-3-methylthien-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(2-cyclohexyl-3-methylthien-5-methylidenyl)-4-aza-2-indolinone,  
 3-(2-cyclohexyl-3-methylthien-5-methylidenyl)-6-aza-2-indolinone,  
 3-(2-cyclohexyl-3-methylthien-5-methylidenyl)-5-aza-2-indolinone,  
 3-(2-cyclohexyl-3-methylthien-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2-cyclohexyl-3-methylthien-5-methylidenyl)-5-amino-7-aza-2-indolinone,  
 3-(2-cyclohexyl-3-methylthien-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
 3-[4-(4-chlorobenzoyl)-1-methylpyrrol-2-methylidenyl]-4-aza-2-indolinone,  
 3-[4-(4-chlorobenzoyl)-1-methylpyrrol-2-methylidenyl]-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-[4-(4-chlorobenzoyl)-1-methylpyrrol-2-methylidenyl]-5-amino-7-aza-2-indolinone,  
 3-[4-(4-chlorobenzoyl)-1-methylpyrrol-2-methylidenyl]-5-acetamido-7-aza-2-indolinone,  
 3-[4-(4-chlorobenzoyl)-1-methylpyrrol-2-methylidenyl]-7-aza-5-nitro-2-indolinone,  
 3-[4-(4-chlorobenzoyl)-1-methylpyrrol-2-methylidenyl]-6-aza-2-indolinone,  
 3-(2-benzyl-4-methylthien-5-methylidenyl)-5-amino-7-aza-2-indolinone,  
 3-(2-benzyl-4-methylthien-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
 3-(2-benzyl-4-methylthien-5-methylidenyl)-4-aza-2-indolinone,  
 3-(2-benzyl-4-methylthien-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(2-benzyl-4-methylthien-5-methylidenyl)-6-aza-2-indolinone,  
 3-(2-benzyl-4-methylthien-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2-benzyl-4-methylthien-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(2-benzyl-4-methylthien-5-methylidenyl)-5-aza-2-indolinone,  
 3-(4-phenylethynylthien-2-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(4-phenylethynylthien-2-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(4-phenylethynylthien-2-methylidenyl)-4-aza-2-indolinone,  
 3-(4-phenylethynylthien-2-methylidenyl)-5-amino-7-aza-2-indolinone,  
 3-(4-phenylethynylthien-2-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
 3-(4-phenylethynylthien-2-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(4-phenylethynylthien-2-methylidenyl)-6-aza-2-indolinone,  
 3-(4-phenylethynylthien-2-methylidenyl)-5-aza-2-indolinone,  
 3-(2-phenylethynylthien-5-methylidenyl)-6-aza-2-indolinone,  
 3-(2-phenylethynylthien-5-methylidenyl)-5-aza-2-indolinone,  
 3-(2-phenylethynylthien-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2-phenylethynylthien-5-methylidenyl)-5-amino-7-aza-2-indolinone,

3-(2-phenylethynylthien-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
3-(2-phenylethynylthien-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
3-(2-phenylethynylthien-5-methylidenyl)-4-aza-2-indolinone,  
3-(2-phenylethynylthien-5-methylidenyl)-4-aza-5-methyl-2-indolinone, and  
3-(2-phenylthien-5-methylidenyl)-4-aza-2-indolinone.

### Pending Claims With Entry of this Amendment

1. (Five times amended) An azaindole compound having the following chemical structure:



wherein,

A is selected from the group consisting of nitrogen, oxygen and sulfur and it is understood that when A is oxygen or sulfur, R<sup>3</sup> does not exist and there is no bond;

B, D, E, F and G are independently selected from the group consisting of carbon and nitrogen wherein only one of D, E, F and G is nitrogen and the other of D, E, F, and G are carbon, and it is understood that when B, D, E, F or G is nitrogen, R<sup>6</sup>, R<sup>7</sup>, R<sup>8</sup>, R<sup>9</sup> and R<sup>10</sup>, respectively, do not exist and there is no bond;

Z is selected from the group consisting of oxygen, sulfur and NR<sup>11</sup> wherein, R<sup>11</sup> is selected from the group consisting of hydrogen, alkyl, cycloalkyl, aryl, hydroxy, alkoxy, aryloxy, -C(=O)-R'', -C(=O)O-R'', R''C(=O)O-, -S(=O)<sub>2</sub>R'', -C(=O)NR<sup>12</sup>R<sup>13</sup>, R<sup>12</sup>R<sup>13</sup>NC(=NH)-, and trihalomethanesulfonyl;

R<sup>1</sup> is selected from the group consisting of hydrogen, alkyl, cycloalkyl, aryl, heteroaryl, heteroalicyclic, hydroxy, alkoxy, trihalomethanecarbonyl, trihalomethanesulfonyl, -C(=O)O-R'', R''C(=O)O-, -S(=O)<sub>2</sub>R'', -C(=O)NR<sup>12</sup>R<sup>13</sup>, and R<sup>12</sup>R<sup>13</sup>NC(=NH)-;

$R^2$  is selected from the group consisting of hydrogen, alkyl, cycloalkyl, aryl and halogen;

when A is nitrogen,  $R^3$  is selected from the group consisting of hydrogen, alkyl, cycloalkyl, aryl, hydroxy, alkoxy, aryloxy,  $-C(=O)-R''$ ,  $-C(=O)O-R''$ , trihalomethanesulfonyl,  $R''C(=O)O-$ ,  $-S(=O)_2R''$ ,  $-C(=O)NR^{12}R^{13}$ , and  $R^{12}R^{13}NC(=NH)-$ ;

$R^4$ ,  $R^5$ ,  $R^6$ ,  $R^7$ ,  $R^8$ ,  $R^9$  and  $R^{10}$  are independently selected from the group consisting of hydrogen, alkyl, trihaloalkyl, cycloalkyl, alkenyl, alkynyl, aryl, heteroaryl, heteroalicyclic, hydroxy, alkoxy, aryloxy, thiohydroxy, thioalkoxy,  $-R^{12}NC(=NH)NR^{13}R^{14}$ , thioaryloxy,  $-S(=O)R''$ ,  $-S(=O)_2NR^{12}R^{13}$ ,  $R^{12}S(=O)_2NR^{13}-$ , trihalomethanesulfonyl,  $-C(=O)-R''$ ,  $-C(=O)O-R''$ ,  $R''C(=O)O-$ ,  $-S(=O)_2R''$ ,  $-C(=O)NR^{12}R^{13}$ , cyano, nitro, halo, amino,  $-OC(=O)NR^{12}R^{13}$ ,  $R^{12}OC(=O)NR^{13}-$ ,  $-OC(=S)NR^{12}R^{13}$ ,  $R^{12}OC(=S)NR^{13}-$ ,  $R^{12}R^{13}NC(=NH)-$ ,  $-NR^{12}C(=O)NR^{13}R^{14}$ ,  $R^{12}C(=O)NR^{13}-$ ,  $R^{12}C(=O)NR^{13}-$  and  $-NR^{12}R^{13}$ ;

wherein  $R''$  is selected from the group consisting of hydrogen, alkyl, cycloalkyl, aryl, heteroaryl (bonded through a ring carbon) and heteroalicyclic (bonded through a ring carbon);

and wherein  $R^{12}$ ,  $R^{13}$ , and  $R^{14}$  are independently selected from the group consisting of hydrogen, alkyl, cycloalkyl, aryl,  $-C(=O)-R''$ ,  $-S(=O)_2R''$ , and combined, a five or six membered heteroalicyclic ring containing at least one nitrogen;

and the physiologically acceptable salts thereof.

2. (Once Amended) The compound or salt of claim 1 wherein  $R^1$  is selected from the group consisting of hydrogen and alkyl.
3. (Once Amended) The compound or salt of claim 2 wherein Z is oxygen.
4. (Twice Amended) The compound or salt of claim 3 wherein  $R^2$  is hydrogen.
5. (Twice Amended) The compound or salt of claim 4 wherein  $R^7$ ,  $R^8$ ,  $R^9$  and  $R^{10}$  are independently selected from the group consisting of hydrogen, alkyl, alkoxy, thioalkoxy, nitro, amino and  $R^{12}C(=O)NR^{13}-$ .

6. (Once Amended) The compound or salt of claim 5 wherein D is nitrogen.
7. (Once Amended) The compound or salt of claim 5 wherein E is nitrogen.
8. (Once Amended) The compound or salt of claim 5 wherein F is nitrogen.
9. (Once Amended) The compound or salt of claim 5 wherein G is nitrogen.
11. (Once Amended) The compound or salt of claim 1 wherein A is nitrogen.
12. (Once Amended) The compound or salt of claim 11 wherein R<sup>3</sup> is selected from the group consisting of hydrogen and alkyl.
13. (Twice Amended) The compound or salt of claim 12 wherein R<sup>4</sup>, R<sup>5</sup> and R<sup>6</sup> are independently selected from the groups consisting of hydrogen, alkyl, and -C(=O)O-R".
14. (Once Amended) The compound or salt of claim 12 wherein R<sup>4</sup> and R<sup>6</sup> are alkyl and R<sup>5</sup> is hydrogen.
15. (Once Amended) The compound or salt of claim 1 wherein A is sulfur.
16. (Twice Amended) The compound or salt of claim 15 wherein R<sup>4</sup>, R<sup>5</sup> and R<sup>6</sup> are heteroaryl, aryloxy, thioalkoxy, halo or nitro.
18. A compound selected from the group consisting of  
 3-(3,5-dimethyl-1H-pyrrol-2-ylmethylene)-1,3-dihydro-pyrrolo[2,3-b]pyridin-2-one,  
 3-(3,5-diethyl-1H-pyrrol-2-ylmethylene)-1,3-dihydro-pyrrolo[2,3-b]pyridin-2-one,  
 3-(3H-imidazol-4-ylmethylene)-1,3-dihydro-pyrrolo[2,3-b]pyridin-2-one,  
 3-[4-methyl-5-(2-oxo-1,2-dihydro-pyrrolo[2,3-b]pyridin-3-ylidenemethyl)-1H-pyrrol-3-yl]-  
 propionic acid,  
 and 3-[2,4-dimethyl-5-(2-oxo-1,2-dihydro-pyrrolo[2,3-b]pyridin-3-ylidenemethyl)-1H-pyrrol-  
 3-yl]-propionic acid.

19. (Twice Amended) A pharmacological composition of said compound or salt of claim 1.
20. (Twice Amended) A method for the modulation of the catalytic activity of a protein tyrosine kinase comprising administering said compound or salt of claim 1 to said protein tyrosine kinase.
21. (Once Amended) A method for treating a protein tyrosine kinase related disorder in an organism comprising administering a therapeutically effective amount of said pharmacological composition of claim 19 to said organism.
22. The method of claim 21 wherein said protein tyrosine kinase related disorder comprises a cell proliferation, differentiation or growth disorder.
23. The method of claim 22 wherein said cell proliferation, differentiation or growth disorder comprises a PDGF related disorder.
24. The method of claim 23 wherein said PDGF related disorder comprises cancer.
25. The method of claim 24 wherein said cancer comprises blastoglioma, Kaposi's sarcoma, melanoma, lung cancer, ovarian cancer or prostate cancer.
26. The method of claim 22 wherein said cell proliferation, differentiation or growth disorder comprises a EGF related disorder.
27. The method of claim 26 wherein said EGF related disorder comprises cancer.
28. The method of claim 27 wherein said cancer comprises squamous cell carcinoma, astrocytoma, glioblastoma, head and neck cancer, lung cancer and bladder cancer.
29. The method of claim 22 wherein said cell proliferation, differentiation or growth disorder comprises a IGF related disorder.
30. The method of claim 29 wherein said IGF related disorder comprise cancer.



31. The method of claim 30 wherein said cancer comprises breast cancer, small-cell lung cancer, and gliomas.

32. The method of claim 22 wherein said cell proliferation, differentiation or growth disorder comprises a met related disorder.

33. The method of claim 32 wherein said met related disorder comprises cancer.

34. The method of claim 33 wherein said cancer comprises colorectal cancer, thyroid cancer, pancreatic and gastric carcinoma, leukemia and lymphoma, Hodgkin's disease and Burkitts disease.

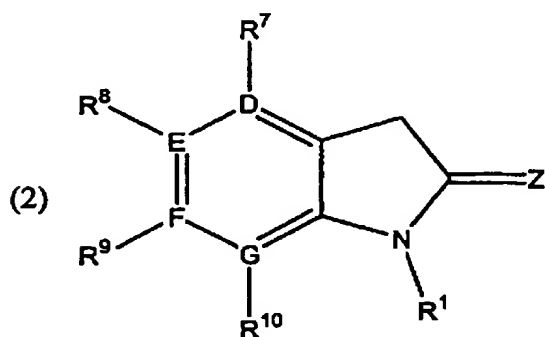
35. The method of claim 21 wherein protein tyrosine kinase related disorder comprises arthritis, diabetic retinopathy, restinosis, hepatic cirrhosis, atherosclerosis, angiogenesis, glomerulonephritis, diabetic nephropathy, thrombic microangiopathy syndromes, transplant rejection, autoimmune disease, diabetes or hyperimmune disorders.

36. The method of claim 21 wherein said organism is a mammal.

37. The method of claim 36 wherein said mammal is a human.

41. (Five times Amended) A method for synthesizing a compound of claim 1 comprising the step of reacting a first reactant with a second reactant in a solvent and in the presence of a base at elevated temperatures, wherein said first reactant has the structure set forth in formula

2



wherein

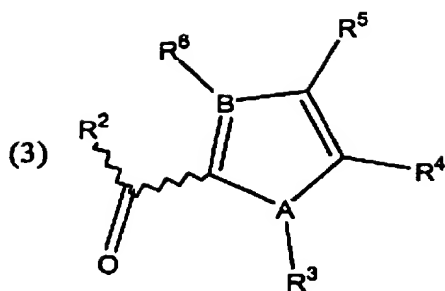
D, E, F and G are independently selected from the group consisting of carbon and nitrogen wherein only one of D, E, F and G is nitrogen and the other of D, E, F, and G are carbon, and it is understood that when D, E, F or G is nitrogen,  $R^7$ ,  $R^8$ ,  $R^9$  and  $R^{10}$ , respectively, do not exist and there is no bond;

$R^7$ ,  $R^8$ ,  $R^9$  and  $R^{10}$  are independently selected from the group consisting of hydrogen, alkyl, trihaloalkyl, cycloalkyl, alkenyl, alkynyl, aryl, heteroaryl, heteroalicyclic, hydroxy, alkoxy, aryloxy, thiohydroxy, thioalkoxy, thioaryloxy,  $-S(=O)R''$ ,  $-S(=O)_2NR^{12}R^{13}$ ,  $R^{12}S(=O)_2NR^{13}-$ , trihalomethanesulfonyl,  $-C(=O)-R''$ ,  $R^{12}C(=O)NR^{13}-$ ,  $-C(=O)O-R''$ ,  $R''C(=O)O-$ ,  $-S(=O)_2R''$ ,  $-C(=O)NR^{12}R^{13}$ , cyano, nitro, halo,  $-OC(=O)NR^{12}R^{13}$ ,  $R^{12}OC(=O)NR^{13}-$ ,  $-OC(=S)NR^{12}R^{13}$ ,  $R^{12}OC(=S)NR^{13}-$ ,  $R^{12}R^{13}NC(=NH)-$ ,  $-R^{12}NC(=NH)NR^{13}R^{14}$ ,  $-NR^{12}C(=O)NR^{13}R^{14}$ , amino, and  $-NR^{12}R^{13}$ ;

Z is selected from the group consisting of oxygen, sulfur and  $NR^{11}$  wherein,  $R^{11}$  is selected from the group consisting of hydrogen, alkyl, cycloalkyl, aryl, hydroxy, alkoxy, aryloxy,  $-C(=O)-R''$ , trihalomethanesulfonyl  $-C(=O)O-R''$ ,  $R''C(=O)O-$ ,  $-S(=O)_2R''$ ,  $-C(=O)NR^{12}R^{13}$ , and  $R^{12}R^{13}NC(=NH)-$ ;

$R^1$  is selected from the group consisting of hydrogen, alkyl, cycloalkyl, aryl, heteroaryl, heteroalicyclic, hydroxy, alkoxy, trihalomethanecarbonyl, trihalomethanesulfonyl  $-C(=O)O-R''$ ,  $R''C(=O)O-$ ,  $-S(=O)_2R''$ ,  $-C(=O)NR^{12}R^{13}$ , and  $R^{12}R^{13}NC(=NH)-$ ;

and wherein said second reactant is an acyl compound having the structure set forth in formula 3



wherein

A is selected from the group consisting of nitrogen, oxygen and sulfur and it is understood that when A is oxygen or sulfur,  $R^3$  does not exist and there is no bond;

B is selected from the group consisting of carbon and nitrogen and it is understood that when B is nitrogen,  $R^6$  does not exist and there is no bond;

$R^2$  is selected from the group consisting of hydrogen, alkyl, cycloalkyl, aryl and halogen;

when A is nitrogen,  $R^3$  is selected from the group consisting of hydrogen, alkyl, cycloalkyl, aryl, hydroxy, alkoxy, aryloxy,  $-C(=O)-R''$ ,  $-C(=O)O-R''$ ,  $R''C(=O)O-$ ,  $-S(=O)_2R''$ ,  $-C(=O)NR^{12}R^{13}$ ,  $R^{12}R^{13}NC(=NH)-$ , and trihalomethanesulfonyl;

$R^4$ ,  $R^5$ , and  $R^6$  are independently selected from the group consisting of hydrogen, alkyl, trihaloalkyl, cycloalkyl, alkenyl, alkynyl, aryl, heteroaryl, heteroalicyclic, hydroxy, alkoxy, aryloxy, thiohydroxy, thioalkoxy, thioaryloxy,  $-S(=O)R''$ ,  $-S(=O)_2NR^{12}R^{13}$ ,  $R^{12}S(=O)_2NR^{13}-$ , trihalomethanesulfonyl,  $-C(=O)-R''$ ,  $-S(=O)_2-R''$ ,  $R^{12}C(=O)NR^{13}-$ , cyano, nitro, halo,  $-OC(=O)NR^{12}R^{13}$ ,  $R^{12}OC(=O)NR^{13}-$ ,  $-OC(=S)NR^{12}R^{13}$ ,  $R^{12}OC(=S)NR^{13}-$ ,  $-C(=O)O-R''$ ,  $R''C(=O)O-$ ,  $-C(=O)NR^{12}R^{13}$ ,  $R^{12}R^{13}NC(=NH)-$ ,  $-R^{12}NC(=NH)NR^{13}R^{14}$ ,  $-NR^{12}C(=O)NR^{13}R^{14}$ , amino and  $-NR^{12}R^{13}$ ;

wherein  $R''$  is selected from the group consisting of hydrogen, alkyl, cycloalkyl, aryl, heteroaryl (bonded through a ring carbon) and heteroalicyclic (bonded through a ring carbon);

and wherein  $R^{12}$ ,  $R^{13}$ , and  $R^{14}$  are independently selected from the group consisting of hydrogen, alkyl, cycloalkyl, aryl,  $-C(=O)-R''$ ,  $-S(=O)_2R''$ , and, combined, a five- or six-member heteroalicyclic ring containing at least one nitrogen.

44. The method of claim 41, wherein said base is selected from the group consisting of a nitrogen base and an inorganic base.

45. The method of claim 41, wherein said solvent is selected from the group consisting of water, an alcohol, and dimethylformamide.

47. (Once Amended) A compound selected from the group consisting of:

- 3-(thien-2-methylidenyl)-4-aza-2-indolinone,
- 3-(1-methylpyrrol-2-methylidenyl)-4-aza-2-indolinone,
- 3-(2-methylthien-5-methylidenyl)-4-aza-2-indolinone,
- 3-(pyrrol-2-methylidenyl)-4-aza-2-indolinone,
- 3-(4-methylthien-2-methylidenyl)-4-aza-2-indolinone,
- 3-(2,4-dimethyl-3-ethoxycarbonylpyrrol-5-methylidenyl)-4-aza-2-indolinone,
- 3-[4-(2-methoxycarbonyl-ethyl)-3-methylpyrrol-2-methylidenyl]-4-aza-2-indolinone,
- 3-(2,4-dimethyl-3-ethylpyrrol-5-methylidenyl)-4-aza-2-indolinone,
- 3-(2-methylmercaptothien-5-methylidenyl)-4-aza-2-indolinone,
- 3-(2,3-dimethylthien-5-methylidenyl)-4-aza-2-indolinone,
- 3-(2-chlorothien-5-methylidenyl)-4-aza-2-indolinone,
- 3-(2,4-dimethylpyrrol-5-methylidenyl)-4-aza-2-indolinone,
- 3-(2-nitrothien-5-methylidenyl)-4-aza-2-indolinone,
- 3-(3-bromothien-2-methylidenyl)-4-aza-2-indolinone,
- 3-(2-carboxy-4-ethyl-3-methylpyrrol-5-methylidenyl)-4-aza-2-indolinone,
- 3-(3-ethoxycarbonyl-1,2,4-trimethylpyrrol-5-methylidenyl)-4-aza-2-indolinone,
- 3-(2-ethoxycarbonyl-4-methoxycarbonyl-3-methylpyrrol-5-methylidenyl)-4-aza-2-indolinone,
- 3-(3,4-dimethylpyrrol-2-methylidenyl)-4-aza-2-indolinone,
- 3-(2-ethylthien-5-methylidenyl)-4-aza-2-indolinone,
- 3-(2,4-diethylpyrrol-5-methylidenyl)-4-aza-2-indolinone,
- 3-(4-methylmercaptothien-2-methylidenyl)-4-aza-2-indolinone,
- 3-[2-trifluoro-1-(thien-2-yl)ethylidenyl]-4-aza-2-indolinone,

3-(2,4-diisopropylpyrrol-5-methylidenyl)-4-aza-2-indolinone,  
 3-(2,4-dimethylthien-5-methylidenyl)-4-aza-2-indolinone,  
 3-(2-ethyl-3-methylthien-5-methylidenyl)-4-aza-2-indolinone,  
 3-(2-isopropyl-3-methylthien-5-methylidenyl)-4-aza-2-indolinone,  
 3-(3-methyl-2-n-propylthien-5-methylidenyl)-4-aza-2-indolinone,  
 3-(2-n-butylthien-5-methylidenyl)-4-aza-2-indolinone,  
 3-(2-n-propylthien-5-methylidenyl)-4-aza-2-indolinone,  
 3-(4-acetyl-2-ethoxycarbonyl-3-methylpyrrol-5-methylidenyl)-4-aza-2-indolinone,  
 3-(4-methoxycarbonyl-3-methoxycarbonylmethyl-2-methylpyrrol-5-methylidenyl)-4-aza-2-indolinone,  
 3-[2-(2-carboxyethyl)-3-methylpyrrol-2-methylidenyl]-4-aza-2-indolinone,  
 3-(1-methylpyrrol-2-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(2-methylthien-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(pyrrol-2-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(4-methylthien-2-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(2,4-dimethyl-3-ethoxycarbonylpyrrol-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-[4-(2-methoxycarbonyl-ethyl)-3-methylpyrrol-2-methylidenyl]-4-aza-5-methyl-2-indolinone,  
 3-(2,4-dimethyl-3-ethylpyrrol-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(2-methylmercaptothien-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(2,3-dimethylthien-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(2-chlorothien-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(2,4-dimethylpyrrol-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(2-nitrothien-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(3-bromothien-2-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(2-carboxy-4-ethyl-3-methylpyrrol-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(3-ethoxycarbonyl-1,2,4-trimethylpyrrol-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(2-ethoxycarbonyl-4-methoxycarbonyl-3-methylpyrrol-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(3,4-dimethylpyrrol-2-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(2-ethylthien-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(2,4-diethylpyrrol-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(4-methylmercaptothien-2-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-[2-trifluoro-1-(thien-2-yl)ethylidenyl]-4-aza-5-methyl-2-indolinone,

3-(2,4-diisopropylpyrrol-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(2,4-dimethylthien-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(2-ethyl-3-methylthien-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(2-isopropyl-3-methylthien-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(3-methyl-2-n-propylthien-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(2-n-butylthien-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(2-n-propylthien-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(4-acetyl-2-ethoxycarbonyl-3-methylpyrrol-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(4-methoxycarbonyl-3-methoxycarbonylmethyl-2-methylpyrrol-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-[2-[1-methyl-5-(trifluoromethyl)pyrrol-3-yl]thien-5-methylidenyl]-4-aza-5-methyl-2-indolinone,  
 3-[2-[1-methyl-3-(trifluoromethyl)pyrrol-5-yl]thien-5-methylidenyl]-4-aza-5-methyl-2-indolinone,  
 3-[2-(2-carboxyethyl)-3-methylpyrrol-2-methylidenyl]-4-aza-5-methyl-2-indolinone,  
 3-(thien-2-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(1-methylpyrrol-2-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(2-methylthien-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(pyrrol-2-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(4-methylthien-2-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(2,4-dimethyl-3-ethoxycarbonylpyrrol-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-[4-(2-methoxycarbonyl)ethyl]-3-methylpyrrol-2-methylidenyl]-7-aza-5-nitro-2-indolinone,  
 3-(2,4-dimethyl-3-ethylpyrrol-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(2-methylmercaptothien-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(2,3-dimethylthien-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(2-chlorothien-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(2,4-dimethylpyrrol-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(2-nitrothien-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(2-carboxy-4-ethyl-3-methylpyrrol-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(3-ethoxycarbonyl-1,2,4-trimethylpyrrol-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(2-ethoxycarbonyl-4-methoxycarbonyl-3-methylpyrrol-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(3,4-dimethylpyrrol-2-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(2-ethylthien-5-methylidenyl)-7-aza-5-nitro-2-indolinone,

3-(2,4-diethylpyrrol-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(4-methylmercaptothien-2-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-[2-trifluoro-1-(thien-2-yl)ethylidenyl]-7-aza-5-nitro-2-indolinone,  
 3-(2,4-diisopropylpyrrol-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(2,4-dimethylthien-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(3-bromothien-2-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(2-ethyl-3-methylthien-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(2-isopropyl-3-methylthien-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(3-methyl-2-n-propylthien-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(2-n-butylthien-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(2-n-propylthien-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(4-acetyl-2-ethoxycarbonyl-3-methylpyrrol-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(4-methoxycarbonyl-3-methoxycarbonylmethyl-2-methylpyrrol-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-[2-[1-methyl-5-(trifluoromethyl)pyrrol-3-yl]thien-5-methylidenyl]-7-aza-5-nitro-2-indolinone,  
 3-[2-[1-methyl-3-(trifluoromethyl)pyrrol-5-yl]thien-5-methylidenyl]-7-aza-5-nitro-2-indolinone,  
 3-[2-(2-carboxyethyl)-3-methylpyrrol-2-methylidenyl]-7-aza-5-nitro-2-indolinone,  
 3-(thien-2-methylidenyl)-6-aza-2-indolinone, 3-(1-methylpyrrol-2-methylidenyl)-6-aza-2-indolinone,  
 3-(2-methylthien-5-methylidenyl)-6-aza-2-indolinone,  
 3-(pyrrol-2-methylidenyl)-6-aza-2-indolinone,  
 3-(4-methylthien-2-methylidenyl)-6-aza-2-indolinone,  
 3-(2,4-dimethyl-3-ethoxycarbonylpyrrol-5-methylidenyl)-6-aza-2-indolinone,  
 3-[4-(2-methoxycarbonyl)ethyl]-3-methylpyrrol-2-methylidenyl]-6-aza-2-indolinone,  
 3-(2,4-dimethyl-3-ethylpyrrol-5-methylidenyl)-6-aza-2-indolinone,  
 3-(2-methylmercaptothien-5-methylidenyl)-6-aza-2-indolinone,  
 3-(2,3-dimethylthien-5-methylidenyl)-6-aza-2-indolinone,  
 3-(2-chlorothien-5-methylidenyl)-6-aza-2-indolinone,  
 3-(2,4-dimethylpyrrol-5-methylidenyl)-6-aza-2-indolinone,  
 3-(2-nitrothien-5-methylidenyl)-6-aza-2-indolinone,  
 3-(3-bromothien-2-methylidenyl)-6-aza-2-indolinone,  
 3-(2-carboxy-4-ethyl-3-methylpyrrol-5-methylidenyl)-6-aza-2-indolinone,

3-(3-ethoxycarbonyl-1,2,4-trimethylpyrrol-5-methylidenyl)-6-aza-2-indolinone,  
 3-(2-ethoxycarbonyl-4-methoxycarbonyl-3-methylpyrrol-5-methylidenyl)-6-aza-2-indolinone,  
 3-(3,4-dimethylpyrrol-2-methylidenyl)-6-aza-2-indolinone,  
 3-(2-ethylthien-5-methylidenyl)-6-aza-2-indolinone,  
 3-(2,4-diethylpyrrol-5-methylidenyl)-6-aza-2-indolinone,  
 3-(4-methylmercaptothien-2-methylidenyl)-6-aza-2-indolinone,  
 3-[2-trifluoro-1-(thien-2-yl)ethylidenyl]-6-aza-2-indolinone,  
 3-(2,4-diisopropylpyrrol-5-methylidenyl)-6-aza-2-indolinone,  
 3-(2,4-dimethylthien-5-methylidenyl)-6-aza-2-indolinone,  
 3-(2-cyclopropyl-4-methylthien-5-methylidenyl)-6-aza-2-indolinone,  
 3-(2-ethyl-3-methylthien-5-methylidenyl)-6-aza-2-indolinone,  
 3-(2-isopropyl-3-methylthien-5-methylidenyl)-6-aza-2-indolinone,  
 3-(3-methyl-2-n-propylthien-5-methylidenyl)-6-aza-2-indolinone,  
 3-(2-n-butylthien-5-methylidenyl)-6-aza-2-indolinone,  
 3-(2-n-propylthien-5-methylidenyl)-6-aza-2-indolinone,  
 3-(4-acetyl-2-ethoxycarbonyl-3-methylpyrrol-5-methylidenyl)-6-aza-2-indolinone,  
 3-(4-methoxycarbonyl-3-methoxycarbonylmethyl-2-methylpyrrol-5-methylidenyl)-6-aza-2-indolinone,  
 3-[2-[1-methyl-5-(trifluoromethyl)pyrrol-3-yl]thien-5-methylidenyl]-6-aza-2-indolinone,  
 3-[2-[1-methyl-3-(trifluoromethyl)pyrrol-5-yl]thien-5-methylidenyl]-6-aza-2-indolinone,  
 3-[2-(2-carboxyethyl)-3-methylpyrrol-2-methylidenyl]-6-aza-2-indolinone,  
 3-(thien-2-methylidenyl)-5-aza-2-indolinone,  
 3-(1-methylpyrrol-2-methylidenyl)-5-aza-2-indolinone,  
 3-(2-methylthien-5-methylidenyl)-5-aza-2-indolinone,  
 3-(pyrrol-2-methylidenyl)-5-aza-2-indolinone,  
 3-(4-methylthien-2-methylidenyl)-5-aza-2-indolinone,  
 3-(2,4-dimethyl-3-ethoxycarbonylpyrrol-5-methylidenyl)-5-aza-2-indolinone,  
 3-[4-(2-methoxycarbonyl)ethyl]-3-methylpyrrol-2-methylidenyl]-5-aza-2-indolinone,  
 3-(2,4-dimethyl-3-ethylpyrrol-5-methylidenyl)-5-aza-2-indolinone,  
 3-(2-methylmercaptothien-5-methylidenyl)-5-aza-2-indolinone,  
 3-(2,3-dimethylthien-5-methylidenyl)-5-aza-2-indolinone,  
 3-(2-chlorothien-5-methylidenyl)-5-aza-2-indolinone,  
 3-(2,4-dimethylpyrrol-5-methylidenyl)-5-aza-2-indolinone,



3-(2-nitrothien-5-methylidenyl)-5-aza-2-indolinone,  
 3-(3-bromothien-2-methylidenyl)-5-aza-2-indolinone,  
 3-(2-carboxy-4-ethyl-3-methylpyrrol-5-methylidenyl)-5-aza-2-indolinone,  
 3-(3-ethoxycarbonyl-1,2,4-trimethylpyrrol-5-methylidenyl)-5-aza-2-indolinone,  
 3-(2-ethoxycarbonyl-4-methoxycarbonyl-3-methylpyrrol-5-methylidenyl)-5-aza-2-indolinone,  
 3-(3,4-dimethylpyrrol-2-methylidenyl)-5-aza-2-indolinone,  
 3-(2-ethylthien-5-methylidenyl)-5-aza-2-indolinone,  
 3-(2,4-diethylpyrrol-5-methylidenyl)-5-aza-2-indolinone,  
 3-(4-methylmercaptothien-2-methylidenyl)-5-aza-2-indolinone,  
 3-[2-trifluoro-1-(thien-2-yl)ethylidenyl]-5-aza-2-indolinone,  
 3-(2,4-diisopropylpyrrol-5-methylidenyl)-5-aza-2-indolinone,  
 3-(2,4-dimethylthien-5-methylidenyl)-5-aza-2-indolinone,  
 3-(2-cyclopropyl-4-methylthien-5-methylidenyl)-5-aza-2-indolinone,  
 3-(2-ethyl-3-methylthien-5-methylidenyl)-5-aza-2-indolinone,  
 3-(2-isopropyl-3-methylthien-5-methylidenyl)-5-aza-2-indolinone,  
 3-(3-methyl-2-n-propylthien-5-methylidenyl)-5-aza-2-indolinone,  
 3-(2-n-butylthien-5-methylidenyl)-5-aza-2-indolinone,  
 3-(2-n-propylthien-5-methylidenyl)-5-aza-2-indolinone,  
 3-(4-acetyl-2-ethoxycarbonyl-3-methylpyrrol-5-methylidenyl)-5-aza-2-indolinone,  
 3-(4-methoxycarbonyl-3-methoxycarbonylmethyl-2-methylpyrrol-5-methylidenyl)-5-aza-2-indolinone,  
 3-[4-(1-methylpyrrol)-2-methylidenyl]-5-aza-2-indolinone,  
 3-[2-[1-methyl-5-(trifluoromethyl)pyrrol-3-yl]thien-5-methylidenyl]-5-aza-2-indolinone,  
 3-[2-[1-methyl-3-(trifluoromethyl)pyrrol-5-yl]thien-5-methylidenyl]-5-aza-2-indolinone,  
 3-[2-(2-carboxyethyl)-3-methylpyrrol-2-methylidenyl]-5-aza-2-indolinone,  
 3-(thien-2-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(1-methylpyrrol-2-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2-methylthien-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(pyrrol-2-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(4-methylthien-2-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2,4-dimethyl-3-ethoxycarbonylpyrrol-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,

3-[4-(2-methoxycarbonylethyl)-3-methylpyrrol-2-methylidenyl]-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2,4-dimethyl-3-ethylpyrrol-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2-methylmercaptothien-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2,3-dimethylthien-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2-chlorothien-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2,4-dimethylpyrrol-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2-nitrothien-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(3-bromothien-2-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2-carboxy-4-ethyl-3-methylpyrrol-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(3-ethoxycarbonyl-1,2,4-trimethylpyrrol-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2-ethoxycarbonyl-4-methoxycarbonyl-3-methylpyrrol-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(3,4-dimethylpyrrol-2-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2-ethylthien-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2,4-diethylpyrrol-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(4-methylmercaptothien-2-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-[2-trifluoro-1-(thien-2-yl)ethylidenyl]-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2,4-diisopropylpyrrol-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2,4-dimethylthien-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2-cyclopropyl-4-methylthien-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2-ethyl-3-methylthien-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2-isopropyl-3-methylthien-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(3-methyl-2-n-propylthien-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2-n-butylthien-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2-n-propylthien-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(4-acetyl-2-ethoxycarbonyl-3-methylpyrrol-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(4-methoxycarbonyl-3-methoxycarbonylmethyl-2-methylpyrrol-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,

3-[2-[1-methyl-5-(trifluoromethyl)pyrrol-3-yl]thien-5-methylidenyl]-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-[2-[1-methyl-3-(trifluoromethyl)pyrrol-5-yl]thien-5-methylidenyl]-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-[2-(2-carboxyethyl)-3-methylpyrrol-2-methylidenyl]-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(thien-2-methylidenyl)-5-amino-7-aza-2-indolinone, 3-(1-methylpyrrol-2-methylidenyl)-5-amino-7-aza-2-indolinone,  
 3-(2-methylthien-5-methylidenyl)-5-amino-7-aza-2-indolinone, 3-(pyrrol-2-methylidenyl)-5-amino-7-aza-2-indolinone,  
 3-(4-methylthien-2-methylidenyl)-5-amino-7-aza-2-indolinone,  
 3-(2,4-dimethyl-3-ethoxycarbonylpyrrol-5-methylidenyl)-5-amino-7-aza-2-indolinone,  
 3-[4-(2-methoxycarbonyl)ethyl]-3-methylpyrrol-2-methylidenyl]-5-amino-7-aza-2-indolinone,  
 3-(2,4-dimethyl-3-ethylpyrrol-5-methylidenyl)-5-amino-7-aza-2-indolinone,  
 3-(2-methylmercaptothien-5-methylidenyl)-5-amino-7-aza-2-indolinone,  
 3-(2,3-dimethylthien-5-methylidenyl)-5-amino-7-aza-2-indolinone,  
 3-(2-chlorothien-5-methylidenyl)-5-amino-7-aza-2-indolinone,  
 3-(2,4-dimethylpyrrol-5-methylidenyl)-5-amino-7-aza-2-indolinone,  
 3-(2-nitrothien-5-methylidenyl)-5-amino-7-aza-2-indolinone,  
 3-(3-bromothien-2-methylidenyl)-5-amino-7-aza-2-indolinone,  
 3-(2-carboxy-4-ethyl-3-methylpyrrol-5-methylidenyl)-5-amino-7-aza-2-indolinone,  
 3-(3-ethoxycarbonyl-1,2,4-trimethylpyrrol-5-methylidenyl)-5-amino-7-aza-2-indolinone,  
 3-(2-ethoxycarbonyl-4-methoxycarbonyl-3-methylpyrrol-5-methylidenyl)-5-amino-7-aza-2-indolinone, 3-(3,4-dimethylpyrrol-2-methylidenyl)-5-amino-7-aza-2-indolinone,  
 3-(2-ethylthien-5-methylidenyl)-5-amino-7-aza-2-indolinone, 3-(2,4-diethylpyrrol-5-methylidenyl)-5-amino-7-aza-2-indolinone,  
 3-(4-methylmercaptothien-2-methylidenyl)-5-amino-7-aza-2-indolinone,  
 3-[2-trifluoro-1-(thien-2-yl)ethylidenyl]-5-amino-7-aza-2-indolinone,  
 3-(2,4-diisopropylpyrrol-5-methylidenyl)-5-amino-7-aza-2-indolinone,  
 3-(2,4-dimethylthien-5-methylidenyl)-5-amino-7-aza-2-indolinone,  
 3-(2-cyclopropyl-4-methylthien-5-methylidenyl)-5-amino-7-aza-2-indolinone,  
 3-(2-ethyl-3-methylthien-5-methylidenyl)-5-amino-7-aza-2-indolinone,  
 3-(2-isopropyl-3-methylthien-5-methylidenyl)-5-amino-7-aza-2-indolinone,

3-(3-methyl-2-n-propylthien-5-methylidenyl)-5-amino-7-aza-2-indolinone,  
 3-(2-n-butylthien-5-methylidenyl)-5-amino-7-aza-2-indolinone,  
 3-(2-n-propylthien-5-methylidenyl)-5-amino-7-aza-2-indolinone,  
 3-(4-acetyl-2-ethoxycarbonyl-3-methylpyrrol-5-methylidenyl)-5-amino-7-aza-2-indolinone,  
 3-(4-methoxycarbonyl-3-methoxycarbonylmethyl-2-methylpyrrol-5-methylidenyl)-5-amino-7-aza-2-indolinone,  
 3-[2-[1-methyl-5-(trifluoromethyl)pyrrol-3-yl]thien-5-methylidenyl]-5-amino-7-aza-2-indolinone,  
 3-[2-[1-methyl-3-(trifluoromethyl)pyrrol-5-yl]thien-5-methylidenyl]-5-amino-7-aza-2-indolinone,  
 3-[2-(2-carboxyethyl)-3-methylpyrrol-2-methylidenyl]-5-amino-7-aza-2-indolinone,  
 3-(thien-2-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
 3-(1-methylpyrrol-2-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
 3-(2-methylthien-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
 3-(pyrrol-2-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
 3-(4-methylthien-2-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
 3-(2,4-dimethyl-3-ethoxycarbonylpyrrol-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
 3-[4-(2-methoxycarbonyl-ethyl)-3-methylpyrrol-2-methylidenyl]-5-acetamido-7-aza-2-indolinone,  
 3-(2,4-dimethyl-3-ethylpyrrol-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
 3-(2-methylmercaptothien-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
 3-(2,3-dimethylthien-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
 3-(2-chlorothien-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
 3-(2,4-dimethylpyrrol-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
 3-(2-nitrothien-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
 3-(3-bromothien-2-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
 3-(2-carboxy-4-ethyl-3-methylpyrrol-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
 3-(3-ethoxycarbonyl-1,2,4-trimethylpyrrol-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
 3-(2-ethoxycarbonyl-4-methoxycarbonyl-3-methylpyrrol-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
 3-(3,4-dimethylpyrrol-2-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
 3-(2-ethylthien-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
 3-(2,4-diethylpyrrol-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
 3-(4-methylmercaptothien-2-methylidenyl)-5-acetamido-7-aza-2-indolinone,

3-[2-trifluoro-1-(thien-2-yl)ethylidenyl]-5-acetamido-7-aza-2-indolinone,  
 3-(2,4-diisopropylpyrrol-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
 3-(2,4-dimethylthien-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
 3-(2-ethyl-3-methylthien-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
 3-(2-isopropyl-3-methylthien-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
 3-(3-methyl-2-n-propylthien-5-methylidenyl)-5-acetamido-7-aza-2-indolinone, 3-(2-n-butylthien-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
 3-(2-n-propylthien-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
 3-(4-acetyl-2-ethoxycarbonyl-3-methylpyrrol-5-methylidenyl)-5-acetamido-7-aza-2-indolinone, 3-(4-methoxycarbonyl-3-methoxycarbonylmethyl-2-methylpyrrol-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
 3-[2-[1-methyl-5-(trifluoromethyl)pyrrol-3-yl]thien-5-methylidenyl]-5-acetamido-7-aza-2-indolinone,  
 3-[2-[1-methyl-3-(trifluoromethyl)pyrrol-5-yl]thien-5-methylidenyl]-5-acetamido-7-aza-2-indolinone,  
 3-[2-(2-carboxyethyl)-3-methylpyrrol-2-methylidenyl]-5-acetamido-7-aza-2-indolinone  
 3-(2-phenylthien-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(2-phenylthien-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(2-phenylthien-5-methylidenyl)-6-aza-2-indolinone,  
 3-(2-phenylthien-5-methylidenyl)-5-aza-2-indolinone,  
 3-(2-phenylthien-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2-phenylthien-5-methylidenyl)-5-amino-7-aza-2-indolinone,  
 3-(2-phenylthien-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
 3-(3-phenoxythien-2-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(3-phenoxythien-2-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(3-phenoxythien-2-methylidenyl)-6-aza-2-indolinone,  
 3-(3-phenoxythien-2-methylidenyl)-5-aza-2-indolinone,  
 3-(3-phenoxythien-2-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(3-phenoxythien-2-methylidenyl)-5-amino-7-aza-2-indolinone,  
 3-(3-phenoxythien-2-methylidenyl)-4-aza-2-indolinone,  
 3-(3-phenoxythien-2-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
 3-[2-[1-methyl-5-(trifluoromethyl)pyrrol-3-yl]thien-5-methylidenyl]-4-aza-2-indolinone,  
 3-[2-[1-methyl-3-(trifluoromethyl)pyrrol-5-yl]thien-5-methylidenyl]-4-aza-2-indolinone,

3-(2-cyclopropyl-4-methylthien-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(2-cyclopropyl-4-methylthien-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(2-cyclopropyl-4-methylthien-5-methylidenyl)-4-aza-2-indolinone,  
 3-(2-cyclopropyl-4-methylthien-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
 3-(2-cyclohexyl-3-methylthien-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(2-cyclohexyl-3-methylthien-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(2-cyclohexyl-3-methylthien-5-methylidenyl)-4-aza-2-indolinone,  
 3-(2-cyclohexyl-3-methylthien-5-methylidenyl)-6-aza-2-indolinone,  
 3-(2-cyclohexyl-3-methylthien-5-methylidenyl)-5-aza-2-indolinone,  
 3-(2-cyclohexyl-3-methylthien-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2-cyclohexyl-3-methylthien-5-methylidenyl)-5-amino-7-aza-2-indolinone,  
 3-(2-cyclohexyl-3-methylthien-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
 3-[4-(4-chlorobenzoyl)-1-methylpyrrol-2-methylidenyl]-4-aza-2-indolinone,  
 3-[4-(4-chlorobenzoyl)-1-methylpyrrol-2-methylidenyl]-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-[4-(4-chlorobenzoyl)-1-methylpyrrol-2-methylidenyl]-5-amino-7-aza-2-indolinone,  
 3-[4-(4-chlorobenzoyl)-1-methylpyrrol-2-methylidenyl]-5-acetamido-7-aza-2-indolinone,  
 3-[4-(4-chlorobenzoyl)-1-methylpyrrol-2-methylidenyl]-7-aza-5-nitro-2-indolinone,  
 3-[4-(4-chlorobenzoyl)-1-methylpyrrol-2-methylidenyl]-6-aza-2-indolinone,  
 3-(2-benzyl-4-methylthien-5-methylidenyl)-5-amino-7-aza-2-indolinone,  
 3-(2-benzyl-4-methylthien-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
 3-(2-benzyl-4-methylthien-5-methylidenyl)-4-aza-2-indolinone,  
 3-(2-benzyl-4-methylthien-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(2-benzyl-4-methylthien-5-methylidenyl)-6-aza-2-indolinone,  
 3-(2-benzyl-4-methylthien-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(2-benzyl-4-methylthien-5-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(2-benzyl-4-methylthien-5-methylidenyl)-5-aza-2-indolinone,  
 3-(4-phenylethynylthien-2-methylidenyl)-4-aza-5-methyl-2-indolinone,  
 3-(4-phenylethynylthien-2-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
 3-(4-phenylethynylthien-2-methylidenyl)-4-aza-2-indolinone,  
 3-(4-phenylethynylthien-2-methylidenyl)-5-amino-7-aza-2-indolinone,  
 3-(4-phenylethynylthien-2-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
 3-(4-phenylethynylthien-2-methylidenyl)-7-aza-5-nitro-2-indolinone,  
 3-(4-phenylethynylthien-2-methylidenyl)-6-aza-2-indolinone,  
 3-(4-phenylethynylthien-2-methylidenyl)-5-aza-2-indolinone,  
 3-(2-phenylethynylthien-5-methylidenyl)-6-aza-2-indolinone,  
 3-(2-phenylethynylthien-5-methylidenyl)-5-aza-2-indolinone,

3-(2-phenylethynylthien-5-methylidenyl)-7-aza-6-methyl-5-(pyrid-4-yl)-2-indolinone,  
3-(2-phenylethynylthien-5-methylidenyl)-5-amino-7-aza-2-indolinone,  
3-(2-phenylethynylthien-5-methylidenyl)-5-acetamido-7-aza-2-indolinone,  
3-(2-phenylethynylthien-5-methylidenyl)-7-aza-5-nitro-2-indolinone,  
3-(2-phenylethynylthien-5-methylidenyl)-4-aza-2-indolinone,  
3-(2-phenylethynylthien-5-methylidenyl)-4-aza-5-methyl-2-indolinone, and  
3-(2-phenylthien-5-methylidenyl)-4-aza-2-indolinone.